## PATENT COOPERATION TREATY

# PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  CM2207MQ/VB  FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US 00/27137	02/10/2000	08/10/1999			
Applicant	-				
THE PROCTER & GAMBLE COMPANY et al.					
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This International Search Report consists of a total of sheets.  X It is also accompanied by a copy of each prior art document cited in this report.					
Basis of the report					
With regard to the language, the language in which it was filed, unli	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the			
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this			
was carried out on the basis of the	e sequence listing:	ternational application, the international search			
	nal application in written form.	2			
l 😑 '	rnational application in computer readable form	п.			
<u> </u>	this Authority in written form.				
the statement that the sul	this Authority in computer readble form. esequently furnished written sequence listing d	oes not go beyond the disclosure in the			
international application a	s filed has been furnished.	s identical to the written sequence listing has been			
furnished	omiation recorded in computer readable form is	S morthood to the William coduction hours had been			
2. Certain claims were fou	nd unsearchable (See Box I).				
3. Unity of invention is lac	king (see Box II).	•			
4. With regard to the <b>title</b> ,					
the text is approved as su	bmitted by the applicant.				
the text has been establis	hed by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as su		hy ac it annears in Boy III. The anniicant may			
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.					
6. The figure of the drawings to be pub	ished with the abstract is Figure No.				
as suggested by the appl		None of the figures.			
because the applicant fai					
because this figure better	characterizes the invention.				

### INTERNATIONAL SEARCH REPORT

International Application No PS US 00/27137

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C09J123/10

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  $IPC\ 7\ C09J$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
Х	WO 95 10575 A (EXXON CHEMICAL PATENTS INC) 20 April 1995 (1995-04-20) page 6, line 1 -page 7, line 17	1-7
X	WO 96 26967 A (MINNESOTA MINING & MFG) 6 September 1996 (1996-09-06) page 14, line 23 -page 15, line 5	1–7
Y	WO 99 20664 A (MINNESOTA MINING & MFG) 29 April 1999 (1999-04-29) page 25, line 6 - line 17	1-7
Т	WO 99 52955 A (RIEGER BERNHARD) 21 October 1999 (1999-10-21) the whole document	1-7
	-/	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
19 January 2001	07/02/2001		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Schmidt, H		

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# INTERNATIONAL SEARCH REPORT

PS US 00/27137

C.(Continual	tion) DOCUMENTS CONSIDEA DO BE RELEVANT	73 0	0/2/13/
	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
		-	The same of the sa
'	COLLINS ET AL: "elastomeric		1-7
	polypropylene" MACROMOLECULES,		
	MACKUMULECULES, vol 29 1005 pages 2771 2770		
1	vol. 28, 1995, pages 3771-3778, XP000507390		
	table 5		
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CT/ISA/210 /c		]	

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PSTUS 00/27137

Patent document cited in search repor	rt .	Publication date	Patent family member(s)		Publication date
WO 9510575	Α	20-04-1995	NONE		
WO 9626967	A	06-09-1996	AU 470279 EP 081233 EP 089199 JP 1150134	5 A 1 A	18-09-1996 17-12-1997 20-01-1999 02-02-1999
WO 9920664	Α	29-04-1999	AU 980819 EP 102333		10-05-1999 02-08-2000
WO 9952955	Α	21-10-1999	DE 1981615 AU 342099 AU 370689 WO 995295	9 A 9 A	21-10-1999 01-11-1999 01-11-1999 21-10-1999

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file r			ation of Transmittal of International			
CM2207MQ/VB	FOR FURTHER ACT	ION Pretiminary	/ Examination Report (Form PCT/IPEA/416)			
International application No	o. International filing date (day	/month/year)	Priority date (day/month/year)			
PCT/US00/27137	02/10/2000		08/10/1999			
C09J123/10	fication (IPC) or national classification and IPC					
Applicant						
THE PROCTER & G	AMBLE COMPANY et al.					
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						
2. This REPORT cons	sists of a total of 5 sheets, including this co	over sheet.				
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.						
<u>.</u>						
3. This report contains	indications relating to the following items:					
l ⊠ Basis o	f the report					
II 🗆 Priority						
III □ Non-es	tablishment of opinion with regard to novel	ty, inventive step a	and industrial applicability			
IV 🗆 Lack of	unity of invention					
	ned statement under Article 35(2) with rega s and explanations suporting such stateme		ntive step or industrial applicability;			
VI □ Certain	documents cited					
VII 🗆 Certain	defects in the international application					
VIII 🛚 Certain	observations on the international application	on				
·						
Date of submission of the demand Date of completion of this report						
05/02/2001	23	23.01.2002				
Name and mailing address		uthorized officer	ais OPS MITE			
NL-2280 HV F	ent Office - P.B. 5818 Patentlaan 2 lijswijk - Pays Bas So	chmidt, H	Company of the state of the sta			
Tel. +31 70 34 Fax: +31 70 3	0 - 2040 Tx: 31 651 epo nl 40 - 3016	elephone No. +31 70	340 2461			

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/27137

1.	the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):  Description, pages:						
	1-1	1	as originally filed				
	Cla	aims, No.:					
	1-7	•	as originally filed				
2.	Wit	h regard to the <b>lang</b> guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.				
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:				
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pu	blication of the international application (under Rule 48.3(b)).				
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule				
3.	Wit inte	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained in the int	ernational application in written form.				
		filed together with t	he international application in computer readable form.				
		☐ furnished subsequently to this Authority in written form.					
		The statement that the international ap	the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.				
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.				
4.	The	amendments have	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has bee	en established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):				

## INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/US00/27137

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims

No: Claims 1-7

Inventive step (IS)

Yes:

Claims

No:

Claims 1-7

Industrial applicability (IA)

Yes: Claims 1-7

No:

Claims

2. Citations and explanations see separate sheet

### VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

1. The following documents (D1-D2) are referred to in this opinion; the numbering will be adhered to in the rest of the procedure:

D1 WO-A-96/26967 D2 WO-A-99/20664

#### Box V

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- 2. The subject matter of present claim 1-7 does not appear to be novel in the sense of Art. 33(2) PCT
- 2.1 Subject matter of claim 1 is an article in which two elements are joined by an olefinic homopolymer of an isotacticity of less than 60% as determined from the (mmmm) ratio in NMR.

Example 36 in D1 describes a homopolymeric pressure sensitive adhesive of  $M_w$ =500.000,  $M_n$ =228.000. Page 15 line 4-5 discloses, that these adhesives have an (mmmm) percentage of 6-/+3%. According to table 3 the adhesives are used to join polypropylene to glass. The articles disclosed in D1 therefore are two elements of polypropylene and glass joined by a homopolymeric polypropylene with an isotacticity of less than 60%. Claim 1 is not novel in view of D1.

Claim 1 is also not novel in view of D2. It describes polypropylene used to make pressure sensitive adhesive (page 21, lines 13-16). Example 12 describes a homopolypropylene with an (mmmm) content of 30.9%. Although a skilled man will implicitly assume that an adhesive will be used to join two elements thus manufacturing an article, such articles are for example also disclosed in claim 24 and the tests in example 22 of D2.

- 2.2 Claims 2-7 do not contain new subject matter not disclosed in one of D1 or D2 (see also Box VIII)
- 3. Claims 1-7 to not appear to be inventive in view of Art. 33(3) PCT
- 2.1 None of the parameters characterizing the claimed articles disclosed in the description or the claims of present application lead to a technical effect which has

been demonstrated by comparative examples. Lacking evidence for a technical effect, all solutions including parameters serving as technical features have to be regarded as solutions to the problem of providing an alternative article comprising two elements joined by an elastic adhesive. Since articles comprising elastic adhesives are known (see D2: example 22 on page 48 describes articles of PBT joined by an adhesive. The adhesive comprises polypropylene of molecular weight  $M_w$ =710000 prepared according example 14. The polymer has a mmmm content of 0.9%, is untacky and elastic), an alternative elastic adhesive only characterised by more parameters not resulting in demonstrated technical effects cannot be regarded as inventive.

#### Box VIII

- 4.1 Claims 3, 4 and 6 of present application claim a result to be achieved by the present application and claim the underlying technical problem rather than its solution (PCT Guidelines III 4.7)
- 4.2 The term "an isotacticity of less than 60% of (mmmm) pentad concentration" in claims 1 and 7 is not clear. To what does the percentage refer to? Are the other 40% other pentads or other tacticity schemes? Moreover, the claim does not make clear how the (mmmm) pentads are measured (Art. 6 PCT)